10/01/2000

UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Coelho, P., et al.

FILED:

June 4, 1999

FOR:

Autologous Thrombin

To:

Commissioner of Patents and Trademarks

Washington, DC 20231

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT BEFORE MAILING OF FIRST OFFICE ACTION UNDER 37 CFR 1.97(b)

The references listed on the appended PTO-1449 form reflect the state of the art of which applicant is currently aware. The references are included to fulfill the applicant's duty to disclose prior art. It is stipulated, however, that none of these references teach singly, nor render obvious when combined, the nexus of this invention as disclosed and as particularly claimed.

IDENTIFICATION OF TIME OF FILING THE ACCOMPANYING INFORMATION DISCLOSURE STATEMENT

This information disclosure statement submitted herewith is being filed before the mailing date of a first Office Action on the merits.

Dated: December 4, 2001

Respectfully Submitted:

BERNHARD KRETEN
Applicant's Attorney
Telephone (916) 921-6181
Registration No.: 27,037

10/00/2017

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LIST OF PF	RIOR ART CITE	D BY	Filing Date		
Α	PPLICANT		First Named Inventor	Coelho, et al.	
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			Examiner Name		
Sheet 1	of	8	Attorney Docket Number	31120-pa	

U.S. PATENT DOCUMENTS							
Examiner	Cite	U.S. Patent Document	Kind Code	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
Initials	No	Number	ut known)	of Cited Document	MM-DD-YYYY	or Relevant Figures Appear	
	1	713,017		Pumphrey	11-04-1902		
	2	1,614,532		Mobley	01-18-1927		
	3	2,533,004		Ferry, et al.	12-05-1950		
	4	2,747,936		Wahlin	05-29-1956		
	5	3,179,107		Clark	04-20-1965		
	6	3,223,083		Cobey	12-14-1965		
	7	3,236,457		Kennedy, et al.	02-22-1966		
	8	3,269,389		Meurer, et al.	08-30-1966		
	9	3,416,737		Venus, Jr.	12-17-1968		
	10	3,467,096		Horn	09-16-1969		
	11	3,828,980		Creighton, et al.	08-13-1974		
	12	3,942,725		Green	03-09-1976		
	13	3,945,574		Polnauer, deceased, et al.	03-23-1976		
	14	4,040,420		Speer	08-09-1977	· · · · · · ·	
Ī	15	4,067,333		Reinhardt, et al.	01-10-1978		
	16	4,109,653		Kozam, et al.	08-29-1978		
	17	4,265,233		Sugitachi, et al.	05-05-1981		
	18	4,298,598		Schwarz, et al.	11-03-1981		
	19	4,359,049		Redl, et al.	11-16-1982		
	20	4,362,567		Schwarz, et al.	12-07-1982		

	FOREIGN PATENT DOCUMENTS										
Examinei Initials	Cite No	Office'	Number	Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns Lines Where Relevant Passages or Relevant Figures Appea	т.]			
	84	DE	25,913		Zdaril	02-12-1884					
	8 5	СН	259,254		Szent-Györgyi, et al.	06-01-1949					
	86	WIPO	WO 86/01814		Trustees Columbia Univ.	03-27-1986					
	87	WIPO	WO 88/02259		Weis-Fogh	04-07-1988					
	88	WIPO	WO 88/03151		Univ. of Texas System	05-05-1988					

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1449A PTO U.S. Department of Commerce Complete if Known Pev 10.96 Patent and Trademark Office **Application Number** LIST OF PRIOR ART CITED BY Filing Date **APPLICANT** First Named Inventor Coelho, et al. Group Art Unit (use as many sheets as necessary) Examiner Name Sheet of Attorney Docket Number 31120-pa

	U.S. PATENT DOCUMENTS							
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Examiner	Cite		Kind Code	Name of Patentee or Applicant	Cited Document	Where Relevant Passages		
Initials	No	Number	if known:	of Cited Document	MM-DD-YYYY	or Relevant Figures Appear		
	21	4,363,319		Altshuler	12-14-1982			
	22	4,374,830		Schneider	02-22-1983			
	23	4,377,572		Schwarz, et al.	03-22-1983			
	24	4,414,976		Schwarz, et al.	11-15-1983			
	25	4,427,650		Stroetmann	01-24-1984			
	26	4,427,651		Stroetmann	01-24-1984			
	27	4,442,655		Stroetmann	04-17-1984			
	28	4,453,939		Zimmerman, et al.	06-12-1984			
	29	4,627,879		Rose, et al.	12-09-1986			
	30	4,631,055		Redl, et al.	12-23-1986			
	3 1	4,655,211		Sakamoto, et al.	04-07-1987			
	3 2	4,696,812		Silbering, et al.	09-29-1987			
	3 3	4,714,457		Alterbaum	12-22-1987			
	3 4	4,734,261		Koizumi, et al.	03-29-1988			
	3 5	4,735,616		Eibl, et al.	04-05-1988			
	36	4,752,466		Saferstein, et al.	06-21-1988			
	37	4,767,416		Wolf, et al.	08-30-1988			
	38	4,826,048		Skorka, et al.	05-02-1989			
	3 9	4,842,581		Davis	06-27-1989			
	40	4,874,368		Miller, et al.	10-17-1989			

	FOREIGN PATENT DOCUMENTS											
Examinei Initials	Cite No	Office'	Number	Kind Code	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages Columns, Lines, Where Relevant Passages or Relevant Figures Appea					
	89	SU	1,527,261 A1			12-07-1989						
	90	WIPO	WO 91/09641		Cryolife, Inc.	07-11-1991						
	91	BP	0 443 724 A1		Baxter International, Inc.	08-28-1991						
	92	EP	0 505 604 A1		Warner-Lambert Co.	09-30-1992						
	93	EP	0 534 178 A2		Octapharma AG	03-31-1993						

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EXAMINER Initial direference considered, whether or not ortation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include topy of this form with next communication to applicant

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	U.S. PATENT DOCUMENTS									
Examiner	Cite	U.S. Patent Document	Kind Code	Name of Patentee or Applicant	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages				
Initials	No		t known-	of Cited Document	MM-DD-YYYY	or Relevant Figures Appear				
	41	4,902,281		Avoy	02-20-1990					
	42	4,909,251		Seelich	03-20-1990					
	43	4,923,815		Tanaka, et al.	05-08-1990					
	44	4,965,203		Silbering, et al.	10-23-1990					
	45	4,978,336		Capozzi, et al.	12-18-1990					
	46	4,979,942		Wolf, et al.	12-25-1990					
	47	4,987,336		L'Hermite, et al.	01-22-1991					
	48	5,037,390		Raines, et al.	08-06-1991	_				
	49	5,089,415		La Duca	02-18-1992					
	50	5,099,003		Kotitschke, et al.	03-24-1992					
	51	5,104,375		Wolf, et al.	04-14-1992					
	5 2	5,116,315		Capozzi, et al.	05-26-1992					
	53	5,130,244		Nishimaki, et al.	07-14-1992					
	5 4	5,143,838		Kraus, et al.	09-01-1992					
	5 5	5,151,355		Crowley, et al.	09-29-1992					
	56	5,165,938		Knighton	11-24-1992					
	57	5,185,001		Galanakis	02-09-1993					
	58	5,219,328		Morse, et al.	06-15-1993					
	59	5,232,024		Williams	08-03-1993					
	60	5,290,259		Fischer	03-01-1994					

	FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No	Office?		lumber	Kind Code	Name of Patentee or Applicant	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Refevant Figures Appea	
	9 4	WIPO	wo	93/19805		Cryolife, Inc.	10-14-1993		
	9 5	WIPO	wo	94/00566		Cederholm-Williams, et al.	01-06-1994		
	96	BP	0 592	242 A1		E.R. Squibb & Sons	04-13-1994		
	97	WIPO	wo	96/17871		Plasmaseal Corporation	06-13-1996		
	98	WIPO	wo	96/31245		Hamilton Civic Hospitals	10-10-1996		

		
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Initials	110	Number (.f. known)	of Cited Document	MM-DD-YYYY	or Relezant Figures Appear
	61	5,290,552	Sierra, et al.	03-01-1994	
	62	5,304,372	Michalski, et al.	04-19-1994	
	63	5,328,462	Fischer	07-12-1994	
	64	5,368,563	Lonneman, et al.	11-29-1994	
	65	5,393,666	Linnau	02-28-1995	
	66	5,405,607	Epstein	04-11-1995	
	67	5,411,885	Marx	05-02-1995	
	68	5,443,959	Kikuchi, et al.	08-22-1995	
	69	5,460,945	Springer, et al.	10-24-1995	
	70	5,474,540	Miller, et al.	12-12-1995	
	71	5,474,770	Broly, et al.	12-12-1995	
	72	5,480,378	Weis-Fogh, et al.	01-02-1996	
	73	5,506,127	Proba, et al.	04-09-1996	
	74	5,510,102	Cochrum	04-23-1996	
	75	5,575,779	Barry	11-19-1996	
	76	5,578,459	Gordon, et al.	11-26-1996	
	77	5,585,007	Antanavich, et al.	12-17-1996	
	78	5,605,887	Pines, et al.	02-25-1997	
	79	5,614,204	Cochrum	03-25-1997	
	80	5,631,019	Marx	05-20-1997	

	FOREIGN PATENT DOCUMENTS								
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	99	WIPO	WO	99/45938		Sierra, David H.	09-16-1999		
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	8 1	5	,643,192		Hirsh, et al.	07-01-1997			
	82	5	,648,265		Epstein	07-15-1997			
	83	5	,750,657		Edwardson, et al.	05-12-1998			
	8 4	 	,795,571		Cederholm-Williams	08-18-1998			
	8 5	5	,795,780		Cederholm-Williams	08-18-1998			
	86	+	,804,428		Edwardson, et al.	09-08-1998			
	87		,060,461		Drake	05-09-2000			
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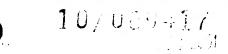
	FOREIGN PATENT DOCUMENTS								
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Initials	No		issue number(s), publisher country where publis		1.
	100	Fenton, J., et al., "Human Thron pp. 43-70.	nbins", Chemistry & Biology of	I hrombin,	
	101	Rosenberg, R.D., et al., "Bovine	Thrombin: Constant Specific A	Activity Products	
		-	d. Proc., p. 321, Abstract No. 3		
	102	Quick, A.J., et al., "Production (
		Acidification Of Diluted P	lasma", pp. 114-118.		
103 Eagle, H., "Studies On Blood Coagulation", pp. 531-545					
	104	And Its Primary			
	<u> </u>	Autolysis Products", pp.			
	105	Mann, K.G., et al., "Multiple Acti			
	100	Martin, M., et al., "Thrombolysis	l. 246(19), pp. 5994-6001, 197		
	106	Thrombolytic Therapy, V		ar Occiusions ,	
	107	Fenton, J., et al., "Large-Scale F		aracterizations Of	
	107	1	mica et Biophysica Acta. Vol. 2		
		pp. 26-32, 1971.		,	
	108	Andrianova, et al., "An Accessit	le Method Of Simultaneous Pro	duction Of Fibrinog	en
			d", pp. 648-650 <mark>, 1975. (Plus E</mark> r		
	109	Georgi, M., et al., "Occlusion Of			
		1	perable Renal Tumor", Deutsche		
			7), pp. 2428-2429, 1975. (Plu		on).
	110	Lundblad, R.L., et al., "Preparat			
			hemical and Biophysical Resear	ch Communications	i,
-	444	Vol. 66(2), pp. 482-489, Sakuragawa, N., et al., "Purifica		Of Human	_
	111		tion And Some Characterization et Biologica, Vol. 23(1), pp. 65		
	:	Thrombin , Acta Medica	er biologica, vol. 23(1), pp. 65	-10, 131J.	
Examir	ner			Date	

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	112	Fenton, J., et al., "Huma	-	bins: Production, Evaluation,		
1				of Biological Chemistry, Vol. 2		
		pp. 3587-3598, 1	977.			
	113 Nordenman, B., et al., "Purification Of Thrombin By Affinity Chromatography On					
	Immobilized Heparin", Thrombosis Research, Vol. 11, pp. 799-808, 1977.					
	114 Nowotny, R., et al., "Mechanical Properties Of Fibrinogen-Adhesive Material",					
	Biomaterials 1980, Vol. 3, pp. 677-682, 1982.					
	115 Kotelba-Witkowska, B., et al., "Cryopreservation Of Platelet Concentrates Using					
	Glycerol-Glucose", Transfusion, Vol. 22(2), pp. 121-124, 1982.					
	116			ntibiotic Mixture Stability And		
				hop. Traumatol. Orthop. Symp.	, Vol. 4,	
pp. 178-181, 1982. (Plus English translation).						
<u> </u>	117		•	es Of Mixtures Of Fibrin Seal A	nd	
				Vol. 4(1), pp. 29-32, 1983.		
	118		_	Fibrinogen For Tissue-Adhesion		
	110			urgery, Vol. 17, pp. 294-304, 1 Dlogous Tissue Glue", Archives		
	119	Laryngology, Vol.		-	or oto-millio-	
	120				oin For Topical	
	120 Tsvetkov, T.S., et al., "A Method For Preparation Of Dry Thrombin For Topical Application", Cryobiology, Vol. 21(6), pp. 661-663, 1984.					
	121 Yu, X.J., et al., "Affinity Chromatography Of Thrombin On Modified Polystyrene					
	Resins", Journal of Chromatography, Vol. 376, pp. 429-435, 1986.					
	122 Fischer, A.M., et al., "Thrombin Purification By One-Step Preparative Affinity Chromatography On Modified Polystyrenes", Journal of Chromatography,					
		Vol. 363(1), pp. 9	5-100,	1986.		
	123	Harpel, P.C., "Blood Prot	eolytic E	Enzyme Inhibitors: Their Role In Modulating		
		Blood Coagulation	And Fil	orinolytic Enzyme Pathways", p	op. 219-234, 1987.	
	-				I.	
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Initials	No	volume-issue numberis) publisher country where published, source	11			
	124	Fenton, J.W., "Regulation Of Thrombin Generation And Functions", Seminars in				
		Thrombosis and Hemostasis, Vol. 14(3), pp. 234-240, 1988.				
	125	Awano, K., et al., "Role Of Seratonin, Histamine, And Thromboxane A2 In Platelet-				
		Induced Contractions Of Coronary Arteries And Aortae From Rabbits",				
		Journal Of Cardiovascular Pharmacology, Vol. 13(5), pp. 781-792, 1989.				
	126	Mulvihill, J., et al., "Thrombin Stimulated Platelet Accumulation On Protein				
		Coated Glass Capillaries: Role Of Adhesive Platelet a-Granule Proteins",				
		Thrombosis and Haemostasis, Vol. 62(3), pp. 989-995, 1989.				
	127	Suzuki, S., et al., "A Study On The Properties Of Commercial Thrombin				
	Preparations", Thrombosis Research, Vol. 53(3), pp. 271-277, 1989.					
	128 Ronfard, V., et al., "Use of Human Keratinocytes Cultured On Fibrin Glue In The					
Treatment Of Burn Wounds", Burns, Vol. 17(3), pp. 181-184, 1991.						
	129 Brennan, M., "Fibrin Glue", Blood Reviews, Vol. 5, pp. 240-244, 1991.					
	130 DePalma, L., et al., "The Preparation Of Fibrinogen Concentrate For Use As Fibrin					
	Glue By Four Different Methods", Transfusion, Vol. 33(9),					
	pp. 717-720, 1993.					
	131 McCarthy, P., "Fibrin Glue In Cardiothoracic Surgery", Transfusion Medicine					
	Reviews, Vol. 7(3), pp. 173-179, 1993.					
	132	Cederholm-Williams, S., "Benefits Of Adjuvant Fibrin Glue In Skin Grafting",				
	The Medical Journal of Australia, Vol. 161(9), p. 575, 1994.					
	133 Cederholm-Williams, S., "Autologous Fibrin Sealants Are Not Yet Available",					
	The Lancet, Vol. 344, p. 336, 1994.					
	134 Wiegand, D.A., et al., "Assessment Of Cryoprecipitate-Thrombin Solution for					
	Dural Repair", Head & Neck, pp. 569-573,1994.					
	135	Szczepanski, et al., "Thrombin Clotting Time and Fibrin Polymerization in Liver				
		Cirrhosis", Materia Medica Polona, Vol. 26, No. 3, pages 87-90, 1994				
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